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of some topics not generally treated in an elementary course. Especially good are the chapters on moments of force, motion of rotation, color, and optical instruments. It is to be regretted that the same consistency did not lead to giving the common units a place of importance co-ordinate with the metric system. One of the few unsatisfactory sections of the book is that dealing with engineering units. A striking feature of the book is the inconspicuous place occupied by mathematics. That this is due to skilful treatment and not to the omission of important relationships is best appreciated when one examines the numerous problems. No teacher can fail to be stimulated by a careful reading of this book. It does not appear to be very different, in point of difficulty, from other high-school texts. It should be more interesting. Above all, it is teachable. The publishers have done their part admirably, making the book as attractive in form as it is worthy in conception and execution.

A. A. KNOWLTON.

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Great Pedagogical Essays: Plato to Spencer. By F. V. N. PAINTER, A.M., D.D.
New York: American Book Co. Pp. 426.

It is a very real need that the editor of these selections has attempted to meet. The history of education is a large subject and the significant materials are available only in the original languages, or in translations, some of which are expensive and to be had only in complete editions of their author's works. With the growing interest in the study of education and its history, and the improved methods of instruction in these subjects, there has arisen a demand for first-hand acquaintance with the sources. To meet this demand within the compass of a volume of the size of the one under review is, of course, impossible; a selection of materials is all that could be expected. With selection comes the question of relative values, and no editor could hope to meet the views of his fellow-workers in the same field.

The twenty-six documents given in whole or in part in this handy volume are all of the first importance. They afford a basis for the formation of an opinion of the general character and trend of an author's work, and thus serve to give substance to the mere outline of the usual textbook.

As has been suggested before, it would be idle to quarrel with the editor's choice of documents, or to suggest important omissions. The student of education who is without access to a large library will be grateful for what the editor has provided, and will profit greatly by a careful study of these pages. Each selection is prefaced by a short biographical sketch of its author. A cursory examination has brought to light one typographical error: "*bedentendsten*" for "*bedeutendsten*," p. 159.

W. B. O.

Methods in Plant Histology. By CHARLES J. CHAMBERLAIN. Chicago:
The University of Chicago Press, 1905. Pp. x+262, with 88 figs.
\$2.39.

Chamberlain has revised and rewritten much of his *Methods in Plant Histology*, adding several new chapters, elaborating and in many instances improving and shortening the processes. The new chapters deal with microchemical tests, free-hand